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| APPLICATION NO.   | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 10/733,927  | 12/10/2003  | Moo Ryong Jeong      | CA1214              | 8607             |
| 32605   | 7590        | 07/19/2006           | EXAMINER            |                  |
| MACPHERSON KWOK CHEN & HEID LLP<br>1762 TECHNOLOGY DRIVE, SUITE 226<br>SAN JOSE, CA 95110 |             |                      |                     | IQBAL, KHAWAR    |
|   |             |                      | ART UNIT            | PAPER NUMBER     |
|   |             |                      |                     | 2617             |

DATE MAILED: 07/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| <b>Office Action Summary</b> | <b>Application No.</b>          | <b>Applicant(s)</b>     |  |
|------------------------------|---------------------------------|-------------------------|--|
|                              | 10/733,927                      | JEONG ET AL.            |  |
|                              | <b>Examiner</b><br>Khawar Iqbal | <b>Art Unit</b><br>2617 |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

1)  Responsive to communication(s) filed on 03 May 2006.

2a)  This action is FINAL.                            2b)  This action is non-final.

3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

4)  Claim(s) 1-26 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5)  Claim(s) \_\_\_\_\_ is/are allowed.

6)  Claim(s) 1-26 is/are rejected.

7)  Claim(s) \_\_\_\_\_ is/are objected to.

8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

9)  The specification is objected to by the Examiner.

10)  The drawing(s) filed on \_\_\_\_\_ is/are: a)  accepted or b)  objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a)  All    b)  Some \* c)  None of:  
1.  Certified copies of the priority documents have been received.  
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1)  Notice of References Cited (PTO-892)  
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date

4)  Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_ .

5)  Notice of Informal Patent Application (PTO-152)

6)  Other: \_\_\_\_\_

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-26 are rejected under 35 U.S.C. 102(e) as being anticipated by Li (20040127240).

3. Regarding claim 1 Li teaches a method of enabling channel scanning in a wireless station, said method comprising (figs. 1-7):

receiving from an access point data related to a possibility of regulatory domain change (para. # 0047-0048,0052-0055,0063,0073-0075, fig. 7); and

selecting a channel scanning method based upon said data (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 2 Li teaches wherein said data indicates whether there is a possibility of domain change (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 3 Li teaches wherein said data is based on geographic information of the access point (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 4 Li teaches wherein said data is based on proximity information of the access point related to a predetermined point (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 5 Li teaches wherein said data is based on maximum coverage area and geographical information of the access point (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 6 Li teaches wherein said selecting a channel scanning method comprises selecting a safe channel scanning method if there is a possibility of regulatory domain change (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 7 Li teaches wherein said selecting a channel scanning method comprises selecting an active channel scanning method if there is no possibility of regulatory domain change (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 8 Li teaches a method of enabling channel scanning in a wireless station, said method comprising (figs. 1-7):

establishing communication between said wireless station and an access point (para. # 0047-0048,0052-0055,0063,0073-0075); receiving information in a lifetime field related to a period of time during which regulatory domain information could be used after the communication between said wireless station and said access point has been lost (para. # 0047-0048,0052-0055,0063,0073-0075); and determining whether an elapsed period of time after the communication between said wireless station and said access point has been lost is greater than the period of time in said lifetime field (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 9 Li teaches wherein said receiving information comprises obtaining the shortest distance from a regulatory domain boundary to an edge of the coverage area of the access point (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 10 Li teaches further comprising obtaining a speed of said wireless station (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 11 Li teaches further comprising selecting a safe channel scanning method if the elapsed period of time is greater than the period of time in said lifetime field (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 12 Li teaches further comprising determining whether there is a possibility of regulatory domain change (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 13 Li teaches further comprising performing safe channel scanning if there is a possibility of regulatory domain change (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 14 Li teaches a method of enabling channel scanning in a wireless station, said method comprising (figs. 1-7): determining if a channel of a plurality of available channels is a domain-independent channel; and actively scanning the domain-independent channel (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 15 Li teaches further comprising receiving a pre-alert field (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 16 Li teaches further comprising performing an active channel scan if valid regulatory domain information is identified during scan of the domain-independent channel (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 17 Li teaches a wireless station adapted to scan for channels in a wireless communication network, said wireless station comprising (figs. 1-7):

a receiver for receiving a data block, wherein said data block comprises a regulatory domain change pre-alert field (para. # 0047-0048,0052-0055,0063,0073-0075); a controller coupled to said receiver, said controller selecting a channel scanning method based upon data in said domain change pre-alert field (para. # 0047-0048,0052-0055,0063,0073-0075); and a transmitter coupled to said controller (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 18 Li teaches wherein said domain change pre-alert field comprises a bit indicating whether there is a possibility of regulatory domain change (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 19 Li teaches wherein the transmitter transmits a probe frame if said regulatory domain change pre-alert field is not set (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 20 Li teaches wherein said domain change pre-alert field is sent in a beacon frame (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 21 Li teaches wherein said domain change pre-alert field is sent in a probe response frame (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 22 Li teaches a wireless station adapted to scan for channels in a wireless communication network, said wireless station comprising (figs. 1-7):

a receiver for receiving a data block, wherein said data block comprises a lifetime field related to the extent of a regulatory domain (para. # 0047-0048,0052-0055,0063,0073-0075); a controller coupled to said receiver, said controller selecting a channel scanning method based upon data in said lifetime field; and a transmitter coupled to said controller (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 23 Li teaches wherein the controller selects a safe channel scan method if said lifetime field has expired (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 24 Li teaches wherein said lifetime field is based upon a maximum handover time (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 25 Li teaches wherein said lifetime field is based on a shortest distance from a regulatory domain boundary to an edge of the coverage area of an access point (para. # 0047-0048,0052-0055,0063,0073-0075).

Regarding claim 26 Li teaches wherein said lifetime field is based upon a maximum speed of said wireless station (para. # 0047-0048,0052-0055,0063,0073-0075).

#### ***Response to Arguments***

4. Applicant's arguments with respect to claims 1-26 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khawar Iqbal whose telephone number is 571-272-7909.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on (571) 272-4090. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

*Khawar Iqbal*



JOSEPH FEILD  
SUPERVISORY PATENT EXAMINER